Special Issue

Structural Rheology of Polymer Melts, Solutions and Compositions on Their Base

Message from the Guest Editor

Rheology is the branch of sciences dealing with considering the response of polymer system on action of mechanical field. Knowledge of this response is important for polymer processing and polymer physics. In the first case, rheological parameters play the key role in estimation of processing regimes at production of plastics, films, fibers, composites, etc. In the second case, rheology "feels" structural transformations occurring with macromolecular conformations, orientation in space, interaction between them and other species presenting in melts or solutions, including micro- and nanoparticles (emulsions and suspensions), formation of aggregates and associates, as well as phase and relaxation transitions. In spite of the fact, that rheology is not structural method, it indicates on structural changes and sometimes combined with direct physical methods: optical, neutron-, X-ray-scattering, etc., and this combination makes us understand dipper structure and morphology of the nascent systems and their evolution at flow. The special issue aims at the tasks where rheology serves as an indicator of structural transformations appearing under action of stresses and strains.

Guest Editor

Prof. Dr. Valery Kulichikhin
Institute of Petrochemical Synthesis, Russian Academy of Sciences, Moscow, Russia

Deadline for manuscript submissions

closed (30 September 2022)

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/si/80091

Polymers
Editorial Office
MDPI, Grosspeteranlage 5
4052 Basel, Switzerland
Tel: +41 61 683 77 34
polymers@mdpi.com

mdpi.com/journal/polymers

Polymers

an Open Access Journal by MDPI

Impact Factor 4.9
CiteScore 9.7
Indexed in PubMed

mdpi.com/journal/polymers

About the Journal

Message from the Editor-in-Chief

Since its foundation in 2009, *Polymers* has developed into an internationally renowned, extremely successful open access journal. The editorial team and the editorial board dedicatedly combine open-access publishing and high-quality rigorous peer reviewing. The performance of the journal has proven this strategy to be well-suited and highly successful. This is reflected in the increasing impact factor of *Polymers*, the most recent one being 4.7.

I would like to invite you to contribute to the success of the journal by sending us your high quality research papers. We would be pleased to welcome you as one of our authors.

Editor-in-Chief

Prof. Dr. Alexander Böker
Lehrstuhl für Polymermaterialien und Polymertechnologie, University of Potsdam, 14476 Potsdam-Golm, Germany

Author Benefits

Open Access:

free for readers, with article processing charges (APC) paid by authors or their institutions.

High Visibility:

indexed within Scopus, SCIE (Web of Science), Ei Compendex, PubMed, PMC, FSTA, CAPlus / SciFinder, Inspec, and other databases.

Journal Rank:

JCR - Q1 (Polymer Science) / CiteScore - Q1 (General Chemistry)

MDPI